Find Duplicate File in System (View)

Given a list `paths` of directory info, including the directory path, and all the files with contents in this directory, return *all the duplicate files in the file system in terms of their paths*. You may return the answer in **any order**.

A group of duplicate files consists of at least two files that have the same content.

A single directory info string in the input list has the following format:

- `"root/d1/d2/.../dm f1.txt(f1_content) f2.txt(f2_content) ... fn.txt(fn_content)"`

It means there are n files `(f1.txt, f2.txt ... fn.txt)` with content `(f1_content, f2_content ... fn_content)` respectively in the directory `"root/d1/d2/.../dm"`. Note that $n >= 1$ and $m >= 0$. If $m = 0$, it means the directory is just the root directory.

The output is a list of groups of duplicate file paths. For each group, it contains all the file paths of the files that have the same content. A file path is a string that has the following format:

- `"directory_path/file_name.txt"`

Example 1:

Input: paths = ["root/a 1.txt(abcd) 2.txt(efgh)","root/c 3.txt(abcd)","root/c/d 4.txt(efgh)","root 4.txt(efgh)"]

Output:
[["root/a/2.txt","root/c/d/4.txt","root/4.txt"],["root/a/1.txt","root/c/3.txt"]]

Example 2:

Input: paths = ["root/a 1.txt(abcd) 2.txt(efgh)","root/c 3.txt(abcd)","root/c/d 4.txt(efgh)"]

Output: [["root/a/2.txt","root/c/d/4.txt"],["root/a/1.txt","root/c/3.txt"]]

Constraints:

- `1 <= paths.length <= 2 * 10`^{4}
- `1 <= paths[i].length <= 3000`
- `1 <= sum(paths[i].length) <= 5 * 10`^{5}
- `paths[i]` consist of English letters, digits, `'/'`, `'.'`, `'('`, `')'`, and `' '`.
- You may assume no files or directories share the same name in the same directory.
- You may assume each given directory info represents a unique directory. A single blank space separates the directory path and file info.